

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,148	10/05/2004	Ruoxing Wang	21285-901	6425
	7590 09/28/200 S OF KHALILIAN SII		EXAM	IINER
LAW OFFICES OF KHALILIAN SIRA, LLC 9100 PERSIMMON TREE ROAD			ZEMAN, ROBERT A	
POTOMAC, MD 20854			ART UNIT	PAPER NUMBER
			1645	
		·		
•			MAIL DATE	DELIVERY MODE
		•	09/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/510,148	WANG ET AL.
Office Action Summary	Examiner	Art Unit
•	Robert A. Zeman	1645
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status	•	•
1) ⊠ Responsive to communication(s) filed on 12 J 2a) □ This action is FINAL. 2b) ⊠ This 3) □ Since this application is in condition for allowal closed in accordance with the practice under I	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-51 is/are pending in the application 4a) Of the above claim(s) 9-15, 20-23 and 25-5 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-6, 16-19, 24 is/are rejected. 7) ⊠ Claim(s) 7 and 8 is/are objected to. 8) □ Claim(s) are subject to restriction and/or Application Papers	<u>i1</u> is/are withdrawn from considera	ation.
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	cepted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	•	•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

Art Unit: 1645

DETAILED ACTION

Election/Restrictions

Applicant's election of Group I in the reply filed on 7-12-2007 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 1-51 are pending. Claims 9-15, 20-23 and 25-51 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Claims 1-8, 16-19 and 24 are currently under examination.

Claim Objections

Claims 2 and 4 are objected for referring to a figure. It is suggested that the claim be rewritten to reference the SEQ ID NO: engendered by said figure.

Claims 7 and 8 are objected to as being dependent on a rejected claim. Said claims would be allowable if presented in independent form.

Claim 24 is objected to because of the following informalities: Said claims recites language drawn to non-elected inventions. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 10/510,148

Art Unit: 1645

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 is rendered vague and indefinite by the use of the term "physiological conditions" It is unclear to what conditions said term is referring. On what physiology are said conditions being based? The cell? As written, it is impossible to determine the metes and bounds of the claimed invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 16-19 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Ruben et al. (WO 00/35937).

Ruben et al. disclose an isolated polynucleotide that has 100% sequence identity with SEQ ID NO:1 over at least 500 base pairs (see SEQ ID NO:23 and the alignment set forth below). Said nucleic acid also contains a guanine in position 1 and contains both TATA and CCAATA boxes. Ruben et al. further said nucleic acids can be incorporated into vectors and host

Application/Control Number: 10/510,148

Art Unit: 1645

cells which can be used to recombinantly express the encoded polypeptide (see abstract and claims 7-10) or kits (see page 191, lines 18-20).

Claims 1-6, 16-19 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Ruben et al. (U.S. Patent Publication US 2004/0253684).

Ruben et al. disclose an isolated polynucleotide that has 100% sequence identity with SEQ ID NO:1 over at least 500 base pairs (see SEQ ID NO:23 and the alignment set forth below). Said nucleic acid also contains a guanine in position 1 and contains both TATA and CCAATA boxes. Ruben et al. further said nucleic acids can be incorporated into vectors and host cells which can be used to recombinantly express the encoded polypeptide (see abstract and claims 7-10) or kits (see paragraph [0564]).

Qy	8238	GCAGGGGCTTAGATGCTGCTGCGCCATCCCTTACCTGTCTGT	8297
Db	8	GCAGGGGCTTAGATGCTGCTGCGCCATCCCTTACCTGTCTGT	67
Qy	8298	CCCTTCCCAGTCTCAGCACTGAGTCTCTTGCCCATTGGCCTGGTGAGGGAAGGAGCTGCC	8357
Db	68	CCCTTCCCAGTCTCAGCACTGAGTCTCTTGCCCATTGGCCTGGTGAGGGAAGGAGCTGCC	127
Qy	8358	AGCCCCACCCAACAGCTCAGGTTACAGAGAGAGTCACTTTCTTCCATTACTCACAGAGTA	8417
Db	128	AGCCCCACCAACAGCTCAGGTTACAGAGAGAGTCACTTTCTTCCATTACTCACAGAGTA	187
Qy	8418	AACATCAAGGAAGGCCACTGATTGATTGACAGTGTCTGGGTCAGATGTCTATCCTTAGGC	8477
Db	188	AACATCAAGGAAGGCCACTGATTGATTGACAGTGTCTGGGTCAGATGTCTATCCTTAGGC	247.
Qy	8478	CAGTCCCTGTGAACAAGGGGATGGGGTGTCTGCGTGGACCAGATCTGAAGCACAGGCCCA	8537
Db	248	CAGTCCCTGTGAACAAGGGGAT-GGGTGTCTGCGTGGACCAGATCTGAAGCACAGGCCCA	306
Qy	8538	TGCCTGGGGCCAGGGGGTGGGAACTATGGACCTCTCTCCCCACTGAGAACCCCAGGGAGC	8597
Db	307	TGCCTGGGGCCA-GGGTGGGAACTATGGACCTCTCTCCCCACTGAGAACCCCAGGGAGC	365
Qy	8598	AGGTGAGGTGAAATTCCTCTAGGGGAAGAGGGGCAAAATTGACAAGATAGCAGATGTCTA	8657
Db	366	AGGTGAGGTGAAATTCCTCTAGGGGAAGAGGGGCAAAATTGACAAGATAGCAGATGTCTA	425 .

Art Unit: 1645

Qy	8658	CCATACTGCTGTGGGGCCTGGTCCCTCCCAGAAGGAAAAACATAGTAACAATAGAGTGGG	8717
Db	426	CCATACTGCTGTGGGGCCTGGTCCCTCCCAGAAGGAAAAACATAGTAACAATAGAGTGGG	485
Qу	8718	TCTCACCTCCACCTGGGTCTCAAGTAGGGTGTGGATGAGGACAATGGAAATGAAGGAAA	8777
Db	486	TCTCACCCTCCACCTGGGTCTCAAGTAGGGTGTGGATGAGGACAATGGAAATGAAGGAAA	545
Qy	8778	GGTTAGAAGGCCTGTGGTACCGGTTGGTAGATAGCTCTTCGTGCTTTCTCCATATGGAGT	8837
Db	546	GGTTAGAAGGCCTGTGGTACCGGTTGGTAAATAGCTCTTCGTGCTTTCTCCATATGGAGT	605
Qy	8838	GAGAGTGCTTGGATGTGATTCCTTCAAAGTCAGGTCTAGGAGACTCAGGATGCCTAATCT	8897
Db	606	GAGAGTGCTTGGATGCCTTCAAAGTCAGGTCTAGGAGACTCAGGATGCCTAATCT	665
Qy	8898	AGAGGTAAGAACATTGTGAGGAAAGCCAGTGAATTCAGTCTTGTGCATGCTGACTTTGAA	8957
Db	666	AGAGGTAAGAACATTGTGAGGAAAGCCAGTGAATTCAGTCTTGTGCATGCTGACTTTGAA	725
Qy	8958	GTACTTTTGGAAGAGCCAAGTGGAATTATCCACAGGACAGGACCAAATCTTACCTGGTTC	9017
Db	726	GTACTTTTGGAAGAGCCAAGTGGAATTATCCACAGGACAGACCAAATCTTACCTGGTTC	785
Qy .	9018	TTCCCCAGGCCGACTAGTCCACAACAGGAAATAAAAAGAGTTGCCCCGATACCAAGGTGT	9077
Db	786	TTCCCCAGGCCGACTAGTCCACAACAGGAAATAAAAAGAGTTGCCCCGATACCAAGTTGT	845
Qy .	9078	ACTAGTCCATTCTCACACTGCTATGGGGAAATACCTGAGACTGGGTAATTTATAAAGGGA	9137
Db	846	ACTAGTCCATTCTCACACTGCTATGGGGAAATACCTGAGACTGGGTAATTTATAAAGGGA	905
Qy	9138	AAAGGTTTAATTGACTCACAGTTCTAGATGGCTGGGGAGGCTTCAGGAAACTTACAATCA	9197
Db	906	AAAGGTTTAATTGACTCACAGTTCTAGATGGCTGGGGAGGCTTCAGGAAACTTACAATCA	965
Qy	9198	TGGCAGAAGGCACCACTTCACAGGGTGGCGGGAGAGAATGAGTGCCCAGCGAAGGGAG	9257
Db	966	TGGCAGAAGGCACCACTTCACAGGGTGGCGGGAGAGAATGAGTGCCCAGCGAAGGGAG	1025
Qy	9258	AAGCTCCTTATAAAACCATCTGTTCTCCTTATAAAGATCTCTTAATAAAACCGTCAGAGA	9317
Db ,	1026	ÀAGCTCCTTÀTAÀAACCATCTGTTCTCCTTÀTAAAGATCTCTTAATAAAACCGTCAGAGA	1085
Qy		ACTATCTCATTCACTATCAGGAGAAGAGCATGGGGGAACCGCCCCCATGATTCAGTTTAC	
Db	1086	ÀCTÀTCTCÀTTCÀCTÀTCÀGGAGAAGAGCÀTGGGGGGAACCGCCCCATGATTCÀGTTTAC	1145
Qy	9378	TCCACCTGGTCCCGCCCTTGACATCTGGGTGTTATTACAATTTAAGGTGAGATTTGGGTG	9437
Db	1146	TCCACCTGGTCCCGCCCTTGACATGTGGGTGTTATTACAATTTAAGGTGAGATTTGGGTG	1205
Qy	9438	GGGACACAGAGCCAAACCATATCACAAGGCTTTCTCCTTCCT	9497
Db	1206	GGGACACAGAGCCAAACCATATCACAAGGCTTTCTCCTCCTTGCTGGGATTGTACCCATA	1265
Qy		GCCTCTTTCTGAGTCCTCTCTTTTTAGCCTCTTTTATGCCTGCAGTGCATCCTTATACCA	
Db	1266	GCCTCTTTCTGAGTCCTCTCTTTTTAGCCTCTTTATGCCTGCAGTGCATCCTTATACCA	1325

Art Unit: 1645

Qу	, 9558	TTTCTAGAGTCATCTTTATAAAACTTATACTCTCCGTATGACTCATAAATCCTGTTTTTT	9617
Db	1326	TTTCTAGAGTCATCTTTATAAAACTTATACTCTCCGTATGACTCATAAATCCTGTTTTTT	1385
Qy	9618	TTTTTGCACAGTATATTAAGTATAAAATTTGTTAAAGTCTTTAATGGTCTGCCCCAAGC	9677
Db	1386	TTTTTGCACAGTATATTAAGTAT-AAATTTGTTAAAGTCTTTAATGGTCTGCCCCCAAGC	1444
Qу	9678	TACATTTCCATTTTGTATGTCTTTCAGTTCCTTTCTACTTTGTATTTGGCTGTTGAGTTA	9737
Db	1445	TACATTTCCATTTTGTATGTCTTTCAGTTCCTTTCTACTTTGTATTTGGCTGTTGAGTTA	1504
Qy .	9738	ACTGAATTTTTGCCATTCCATTAACCCATCCCATGCTTTTCCCACTTCTAGATTTCACTT	9797
Db	1505	ACTGAATTTTTGCCATTCCATTAACCCATCCCATGCTTTTCCCACTTCTAGATTTCACTT	1564
Qy	9798	TTCTTGTAGGCTAGAATGTCTTGACTGGGATCTGACTGGAGATAATGAGAACAAAAACTG	9857
Db	1565	TTCTTGTAGGCTAGAATGTCTTGACTGGGATCTGACTGGAGATAATGAGAACAAAAACTG	1624
Qу	9858	GTTCAAAGAGCCAGGATGTTGCATAAAAGTCCTAAGATTGTATCTAAGCAGGTAAAATÄA	9917
Db	1625	GTTCAAAGAGCCAGGATGTTGCATAAAAGTCCTAAGATTGTATCTAAGCAGGTAAAATAA	1684
Qy	9918	AAATTTTAGGCAATTACTTAAATTTGAAATGCTCACATTTATTAATAAGGCATGTAACAT	9977
Db	16,8,5	AAATTTTAGGCAATTACTTAAATTTGAAATGCTCACATTTATTAATAAGGCATGTAACAT	1744
Qy	9978	CTACATGAGCCATCATTTGCTTTTTTAATTCCACATTGATTAGGAGCCAAACCTTCAGGG	10037
Db	1745	CTACATGAGCCATCATTTGCTTTTTTAATTCCACATTGATTAGGAGCCAAACCTTCAGGG	1804
Qy	10038	CAGGTATCCGGTAGAGCGCCCTGGAGAGGCCCTGGATAGGCACAGGCGCCTGTCAGGGGG	10097
Db	1805	CAGGTATCCGGTAGAGCGCCCTGGAGAGGCCCTGGATAGGCACAGGCGCCTGTCAGGGG	1864
Qу	10098	CTCTTCACATGCTGCTGCTGCTGGGAGAAGAGGGGGCCAGAGACTAGGGGGCTTCT	10157
Db	1865	CTCTTCACATGCTGTGTGCTGCTGGGAGAAGAGGGGGCCAGAGACTAGGGGGCTTCT	1924
Qy	10158	AAGAAGAGGTGGCATTTCTGCCTCAGTGTTGAAGGATGAATAACTTTGACAGGCTGGAAA	10217
Db	1925	AAGAAGAGGTGGCATTTCTGCCTCAGTGTTGAAGGATGAATAACTTTGACAGGCTGGAAA	1984
Qy	10218	AAGGTGACATTTCAGGTAGAGCGTGTCACATGGATGTAAATACCAAAGGTCAAGGACATG	10277
Db	1985	AAGGTGACATTTCAGGTAGAGCGTGTCACATGGATGTAAATACCAAAGGTCAAGGACATG	2044
Qy	10278	GGCTTGAGAGATGGTGAGAAGGATGGAGGTGACTGTGCATTCTATCCGTATCACT	10337
Db	2045	GGCTTGAGAGATGGTGAGATGGAGGTGACTGTGCATTCTATCCGTATCACT	2104
Qy	10338	ATTAATTACCTTCTAATGCCTTTGGCTCTAGGTGGTGGAACAAGTAAAGTAATGGACAAA	10397
Db	2105	ATTAATTACCTTCTAATGCCTTTGGCTCTAGGTGGAACAAGTAAAGTAATGGACAAA	2164
Qy	10398	TACTTTTCTACCAATATTTAGTGACCAAATGCAGAGTTATGGAGAGGGCCAGGGACCTC	10457
Db	2165	TACTTTTCTACCAATATTTAGTGACCAAATGCAGAGTTATGGAGAGGGCCAGGGACCTC	2224

Application/Control Number: 10/510,148

Art Unit: 1645

Qy	10458	ATGAACCATACTCTTTCTAGTCTAGGGACATAACTCCAATGCCTTTCCTGTCCCAGTAAG 10517
Db	2225	ATGAACCATACTCTTTCTAGTCTAGGGACATAACTCCAATGCCTTTCCTGTCCCAGTAAG 2284
Qу	10518	AGGCCATGGATTTCAAGAAGCCAGACAATCCATTCTTTCAGATAATGATAAAAAAAGAAAC 10577
Db	2285	AGGCCATGGATTTCAAGAAGCCAGACAATCCATTCTTTCAGATAATGATAAAAAAAA
Qy	10578	CATTTATTTTATTTCTAAGTATAGAATGAAACATTTATAGTTGCCCAAATTTTGGTACCT 10637
Db	2345	CATTTATTTTATTTCTAAGTATAGAATGAAACATTTATAGTTGCCCAAATTTTGGTACCT 2404
Qy	10638	TTTAGGAGAAAAATACAGATTTTTTTGTTGTTAAAAAATAAACTTAAAAAAAA
Db .	2405	TTTAGGAGAAAATACAGATTTTTTTGTTGTTAAAAAATAAACTTAAAAAAAA
Qy	10698	GA 10699
Db	2465	AA 2466

Conclusion

No claim is allowed.

SEQ ID NO:1 (full length) is free of the art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Zeman whose telephone number is (571) 272-0866. The examiner can normally be reached on Monday- Thursday, 7am -5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on (571) 272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

. Application/Control Number: 10/510,148

Art Unit: 1645

Page 8

Application Information Retrieval (PAIR) system. Status information for published applications

Information regarding the status of an application may be obtained from the Patent

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

PRIMARY EXAMINER

September 25, 2007